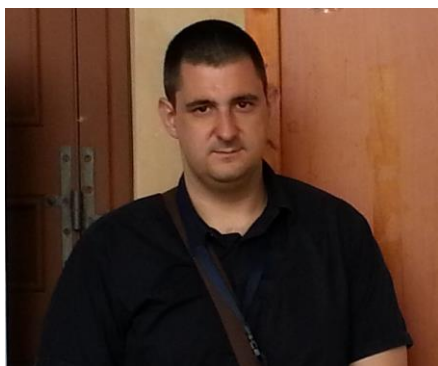


CURRICULUM VITAE

Vladimir Petrović



Family name (Surname): Petrović

First name: Vladimir

Date of birth: January 12, 1984

Country and place of birth: Serbia, Jagodina

Marital status: Married

Nationality: Serbian

Present citizenship: Serbia

Home address: 35213 Despotovac
Serbia
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vladapera@gmail.com

EDUCATION

<i>Primary School:</i>	Despotovac, Serbia 1991 – 1999
<i>Secondary School:</i>	Jagodina, Serbia 1999 – 2003
<i>MSc in Chemistry:</i>	Department of Chemistry Faculty of Science University of Kragujevac Kragujevac, Serbia 2003 - 2007
<i>PhD in Chemistry:</i> <i>(Supervisor: Professor Zorica D. Petrović)</i>	Department of Chemistry Faculty of Science University of Kragujevac Kragujevac, Serbia 2007-2013
<i>PhD thesis title:</i>	Diethanolamine palladium(II)-complex as Heck reaction catalyst
<i>Professional Societies:</i>	Serbian Chemical Society, Czech Society for Mass Spectrometry
<i>List of significant publications:</i>	23 Publications

(See List of Scientific Publications)

EMPLOYMENT:

Research Assistant:
(Supervisor: Professor Zorica D. Petrović)

Department of Chemistry
Faculty of Science
University of Kragujevac
Kragujevac, Serbia
October 2007 – April 2013.

Research Associate:
(Supervisor: Professor Zorica D. Petrović)

Department of Chemistry
Faculty of Science
University of Kragujevac
Kragujevac, Serbia
October 2007 – April 2013.

Assistant:
(Supervisor: Professor Zorica D. Petrović)

Department of Chemistry
Faculty of Science
University of Kragujevac
Kragujevac, Serbia
April 2013 – present

Post-doc:
(Supervisor: Professor. Jana Roithová)

Department of Organic Chemistry
Charles University in Prague
Faculty of Science
Prague, Czech Republic
June 2015 – May 2016

WORK/RESEARCH EXPERIENCE

- Phosphine-free Heck reaction: structural characterization of obtained products, and mechanistic study applying different experimental and theoretical techniques.
- Ionic liquids synthesis and characterization.
- Mannich reaction: structural characterization of obtained products, and mechanistic study of reaction catalysed with ionic liquids, applying different experimental and theoretical techniques.

- Palladium(II) and platinum(II) complexes as artificial metallopeptidases - experimental and theoretical mechanistic studies of peptide hydrolysis.
- Radical scavenging activity of compounds, and theoretical background of reaction mechanisms.
- Mass spectrometry, Electrospray ionization, collision induced dissociation experiments with tandem mass spectrometers and ion traps.
- ***TECHICAL/RESEARCH SKILLS***

Good background in organic and bioorganic chemistry, organic synthesis, NMR and IR spectroscopy, UV-Vis spectrophotometry, chromatography techniques, Density Functional Theory, Mass spectrometry, Electrospray ionisation.

AWARDS

Diploma “Vuk Karadžić” for all excellent marks throughout the primary school.

Diploma “Vuk Karadžić” for all excellent marks throughout the secondary school.

Award from the Serbian Chemical Society for extraordinary success during the studies of chemistry.

LANGUAGES

(a) *Mother tongue:* Serbian

(b) *Other languages:*

Understanding		Speaking				Writing	
Listening	Reading	Spoken interaction		Spoken production			
1. English	1. English	1.	English	1.	English	1.	English
2. Russian	2. Russian	2.	Russian	2.			

COMPUTER SKILLS

Skilled in the use of:

1. The Internet in search and use of pertinent information;
2. Microsoft Office (Word, Excel, PowerPoint);
3. ChemOffice;
4. Photoshop, CorelDraw – graphics related software's.
5. Origin
6. Gaussian, GaussView

LIST OF SCIENTIFIC PUBLICATIONS OF VLADIMIR PETROVIĆ

1. Chelate *N,O*-palladium(II) complexes: synthesis, characterization and biological activity
Petrović, Vladimir P.; Zivanović, Marko N.; Simijonović, Dusica; Djorović, Jelena; Petrović, Zorica D.; Marković, Snezana D.
RSC Advances (2015), 5(105), 86274-86281
DOI:10.1039/C5RA10204A
2. Structural characterisation of some vanillic Mannich bases: Experimental and theoretical study
Petrović, Vladimir P.; Simijonović, Dusica; Novaković, Sladjana B.; Bogdanović, Goran A.; Marković, Svetlana; Petrović, Zorica D.
Journal of Molecular Structure (2015), 1098, 34-40
DOI:10.1016/j.molstruc.2015.05.040
3. Formation of a vanillic Mannich base - theoretical study
Petrović, Vladimir P.; Simijonović, Dusica; Petrović, Zorica D.; Marković, Svetlana
Chemical Papers (2015), 69(9), 1244-1252
DOI:10.1515/chempap-2015-0123
4. Experimental and theoretical study of antioxidative properties of some salicylaldehyde and vanillic Schiff bases
Petrović, Zorica D.; Djorović, Jelena; Simijonović, Dusica; **Petrović, Vladimir P.**; Marković, Zoran
RSC Advances (2015), 5(31), 24094-24100
DOI:10.1039/C5RA02134K
5. Vanillic Mannich bases: Synthesis and screening of biological activity. Mechanistic insight into the reaction with 4-chloroaniline
Petrović, Vladimir P.; Simijonović, Dusica; Zivanović, Marko N.; Kosaric, Jelena V.; Petrović, Zorica D.; Marković, Svetlana; Marković, Snezana D.
RSC Advances (2014), 4(47), 24635-24644
DOI:10.1039/C4RA03909B
6. Stereospecific ligands and their complexes. Part XII. Synthesis, characterization and in vitro antiproliferative activity of platinum(IV) complexes with some *O,O'*-dialkyl esters of (*S,S*)-ethylenediamine-*N,N'*-di-2-propanoic acid against colon cancer (HCT-116) and breast cancer (MDA-MB-231) cell lines

- Stojković, Danijela Lj.; Jevtić, Verica V.; Radić, Gordana P.; Djacić, Dragana S.; Curčić, Milena G.; Marković, Snezana D.; Djinović, Vesna M.; **Petrović, Vladimir P.**; Trifunović, Srećko R.
Journal of Molecular Structure (2014), 1062, 21-28
DOI:10.1016/j.molstruc.2014.01.020
7. Use of diethanolammonium-tetrachloridopalladate(II) complex in bioorganic modelling as artificial metallopeptidase in the reaction with *N*-acetylated *L*-methionylglycine dipeptide. NMR and DFT study of the hydrolytic reaction
Petrović, Vladimir P.; Simijonović, Dusica; Petrović, Zorica D.
Journal of Molecular Structure (2014), 1060, 38-41
DOI:10.1016/j.molstruc.2013.12.026
8. Some physico-chemical properties of ethanolamine ionic liquids: Behavior in different solvents
Simijonović, Dusica; Petrović, Zorica D.; **Petrović, Vladimir P.**
Journal of Molecular Liquids (2013), 179, 98-103
DOI:10.1016/j.molliq.2012.12.020
9. Mechanistic insight into the formation of cinnamates in phosphine-free Heck reactions
Petrović, Vladimir P.; Marković, Svetlana; Petrović, Zorica D.
Monatshefte fuer Chemie (2012), 143(11), 1497-1502
DOI:10.1007/s00706-012-0808-3
10. Biological evaluation of mechlorethamine-Pt(II) complex, part II: antimicrobial screening and LOX study of the complex and its ligand
Radojevic, Ivana D.; Petrović, Zorica D.; Comic, Ljiljana R.; Simijonović, Dusica; **Petrović, Vladimir P.**; Hadjipavlou-Litina, Dimitra
Medicinal Chemistry (2012), 8(5), 947-952
11. Antimicrobial activity of the ionic liquids triethanolamine acetate and diethanolamine chloride, and their corresponding Pd(II) complexes
Petrović, Zorica D.; Comic, Ljiljana; Stefanović, Olgica; Simijonović, Dusica; **Petrović, Vladimir P.**
Journal of Molecular Liquids (2012), 170, 61-65
DOI:10.1016/j.molliq.2012.03.009
12. Stereoselective homogeneous catalytic arylation of methyl methacrylate: Experimental and computational study
Petrović, Zorica D.; **Petrović, Vladimir P.**; Simijonović, Dusica; Marković, Svetlana

Journal of Molecular Catalysis A: Chemical (2012), 356, 144-151
DOI:10.1016/j.molcata.2012.01.007

13. Triethanolammonium acetate as a multifunctional ionic liquid in the palladium-catalyzed green Heck reaction
Petrović, Zorica D.; Marković, Svetlana; **Petrović, Vladimir P.**; Simijonović, Dusica
Journal of Molecular Modeling (2012), 18(2), 433-440
DOI:10.1007/s00894-011-1052-1
14. Insight into hydrolytic reaction of N-acetylated l-histidylglycine dipeptide with novel mechlorethamine platinum(II) complex. NMR and DFT study of the hydrolytic reaction
Petrović, Zorica D.; **Petrović, Vladimir P.**; Simijonović, Dusica; Marković, Svetlana
Dalton Transactions (2011), 40(36), 9284-9288
DOI:10.1039/c1dt10593k
15. A new aspect of Heck catalyst formation
Petrović, Vladimir P.; Marković, Svetlana; Petrović, Zorica D.
Monatshefte fuer Chemie (2011), 142(2), 141-144
DOI:10.1007/s00706-010-0439-5
16. Diethanolamine and N,N-diethylethanolamine ionic liquids as precatalyst-precursors and reaction media in green Heck reaction protocol
Petrović, Zorica D.; Simijonović, Dusica; **Petrović, Vladimir P.**; Marković, Svetlana
Journal of Molecular Catalysis A: Chemical (2010), 327(1-2), 45-50
DOI:10.1016/j.molcata.2010.05.010
17. Mechanistic insight into the preactivation of a modern palladium catalyst precursor in phosphine-free Heck reactions
Petrović, Zorica D.; Marković, Svetlana; Simijonović, Dusica; **Petrović, Vladimir P.**
Monatshefte fuer Chemie (2009), 140(4), 371-374
DOI:10.1007/s00706-008-0035-0
18. DFT study on the preactivation reaction of a palladium catalyst precursor in phosphine-free Heck reactions
Marković, Svetlana; Petrović, Zorica D.; **Petrović, Vladimir P.**
Monatshefte fuer Chemie (2009), 140(2), 171-175
DOI:10.1007/s00706-008-0072-8
19. Mechanistic pathways for oxidative addition of aryl iodides to the low-ligated diethanolamine palladium(0) complex in phosphine-free Heck reactions

- Petrović, Zorica D.; **Petrović, Vladimir P.**; Simijonović, Dusica; Marković, Svetlana
Journal of Organometallic Chemistry (2009), 694(24), 3852-3858
DOI:10.1016/j.jorganchem.2009.07.043
20. Diethanolamine Pd(II) complexes in bioorganic modeling as model systems of metallopeptidases and soybean lipoxygenase inhibitors
Petrović, Zorica D.; Hadjipavlou-Litina, Dimitra; Pontiki, Eleni; Simijonović, Dusica;
Petrović, Vladimir P.
Bioorganic Chemistry (2009), 37(5), 162-166
DOI:10.1016/j.bioorg.2009.07.003
21. New Pd(II)-mechlorethamine complex: Synthesis, NMR study of hydrolytic activity and in vitro evaluation of antiradical property of new complex and its alkylating precursor
Petrović, Zorica D.; Hadjipavlou-Litina, Dimitra; **Petrović, Vladimir P.**
Journal of Molecular Liquids (2009), 144(1-2), 55-58
DOI:10.1016/j.molliq.2008.09.003
22. Investigation of the antioxidant and radical scavenging activities of some phenolic Schiff bases with different free radicals
Marković Zoran; Marković Zoran; Dorović Jelena; Petrović Zorica D; **Petrović, Vladimir P.**; Simijonović Dusica
Journal of molecular modeling (2015), 21(11), 293
DOI:10.1007/s00894-015-2840-9
23. Extending the phenyl-cyclopentadienyl rule
Gutman, Ivan; Jeremic, Svetlana; **Petrović, Vladimir P.**
Indian Journal of Chemistry, Section A: Inorganic, Bio-inorganic, Physical, Theoretical & Analytical Chemistry (2009), 48A(5), 658-662